

FIGURE 1A

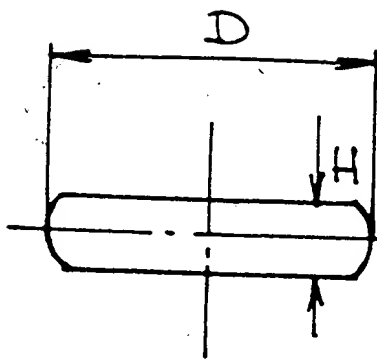


FIGURE 1B

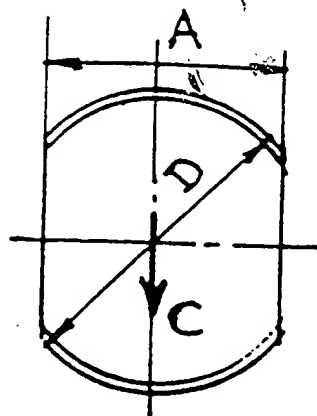


FIGURE 1C

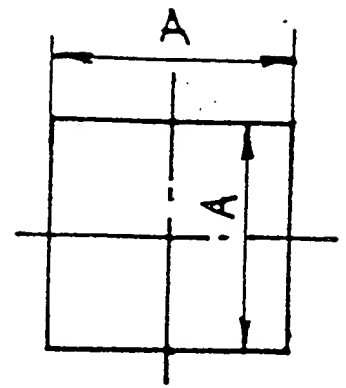


FIGURE 1D

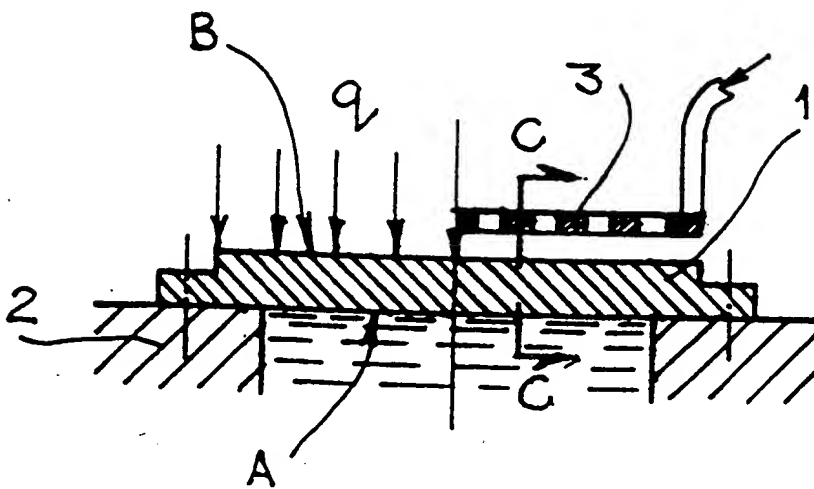


FIGURE 3A

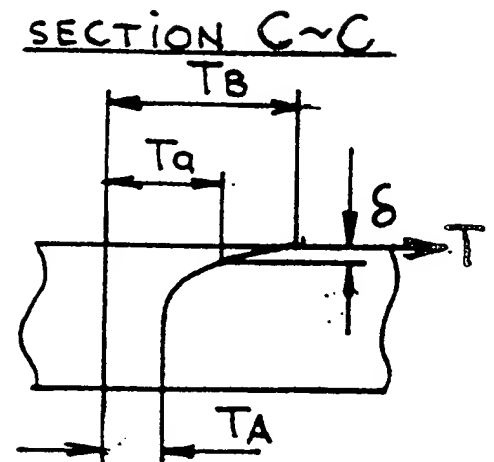
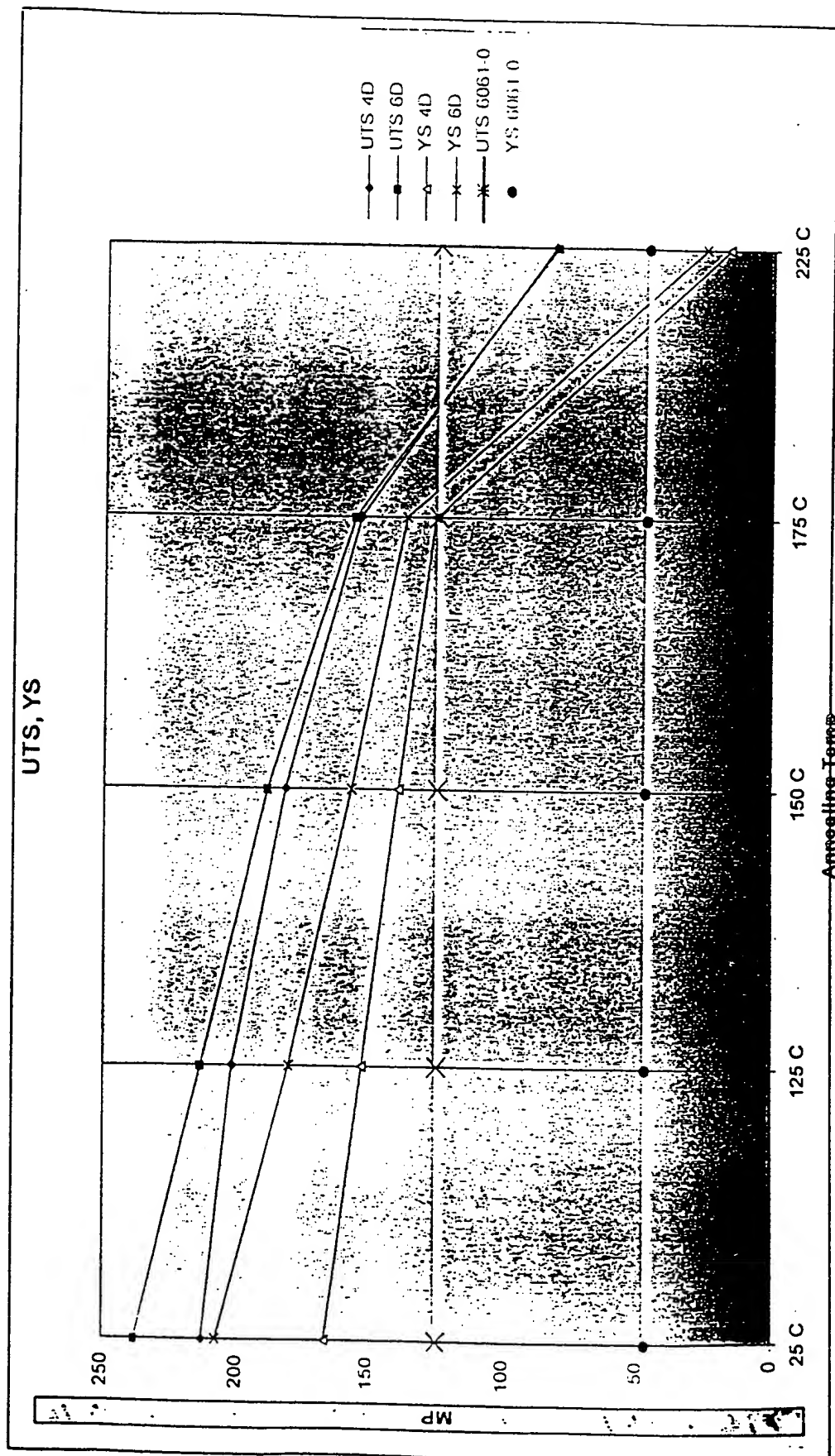


FIGURE 3B

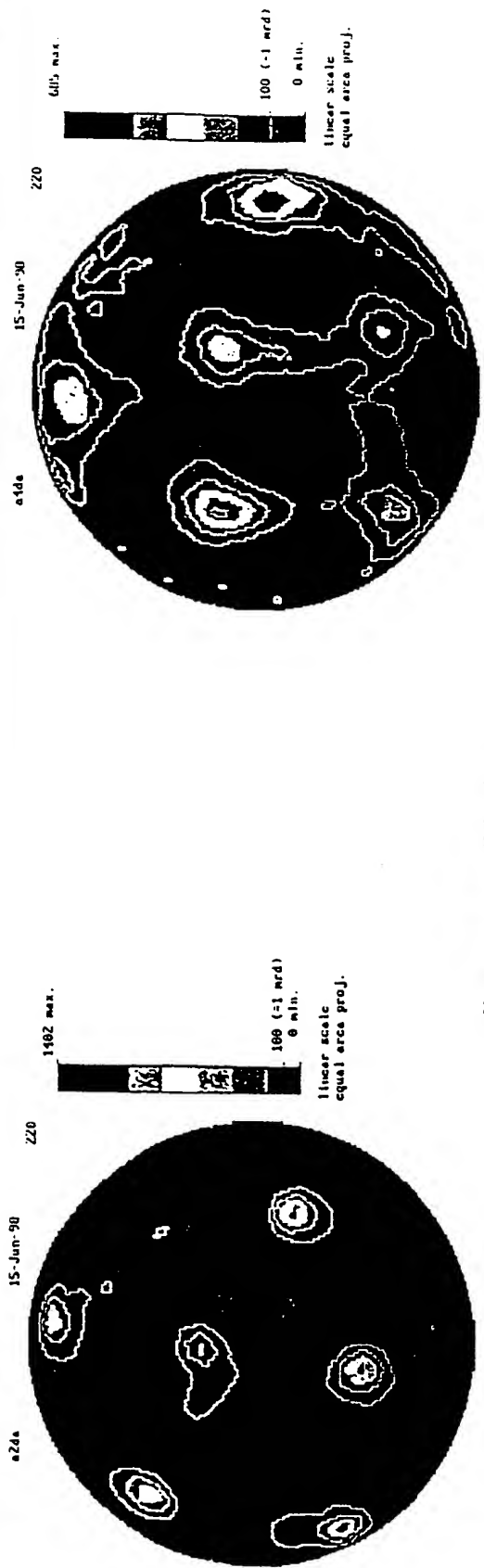
FIGURE 2

Strength of ECAE Al+0.5Cu vs AA 6061-0

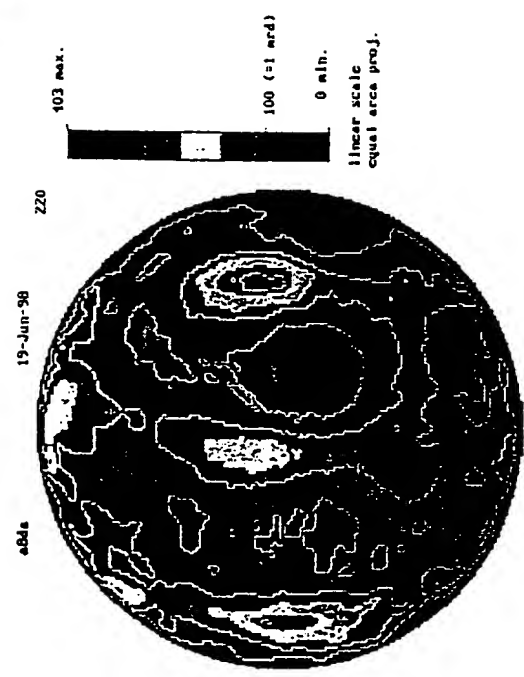


TEXTURAL ANALYSIS OF ECADIFORMED AL₅Cu SPREADING OF ORIENTATIONS AS N INCREASES

ROUTED as deformed- (220) pole



N=4



N=8

Figure 4

Al .5 Cu
INFLUENCE OF ECAE DEFORMATION ROUTE
AND STRENGTH OF INITIAL TEXTURE ON TEXTURE FORMATION IN
FUNCTION OF NUMBER OF ECAE PASSES

EVOLUTION OF OD INDEX AFTER ECAE DEFORMATION VIA ROUTE A,B,C AND D IN
 THE AS-DEFORMED STATE FOR A STRONG AND WEAK INITIAL TEXTURE

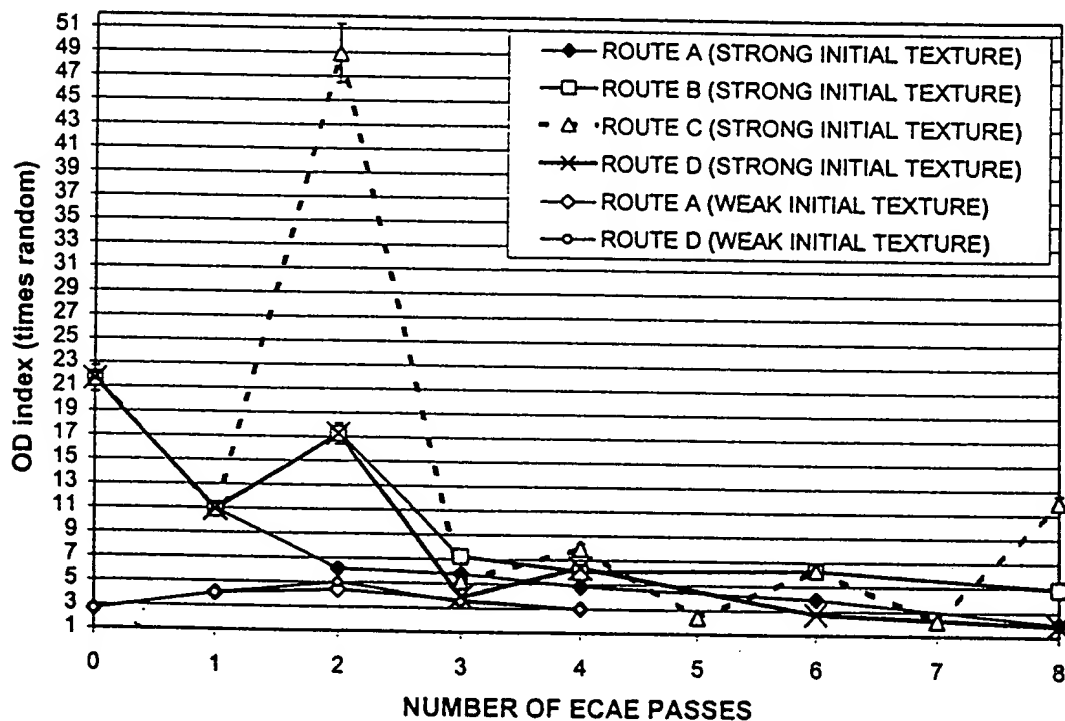


FIGURE 5

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE A

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE
DEFORMATION VIA ROUTE A AND SUBSEQUENT ANNEALING AT TEMPERATURES:
-BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
-AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
-AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

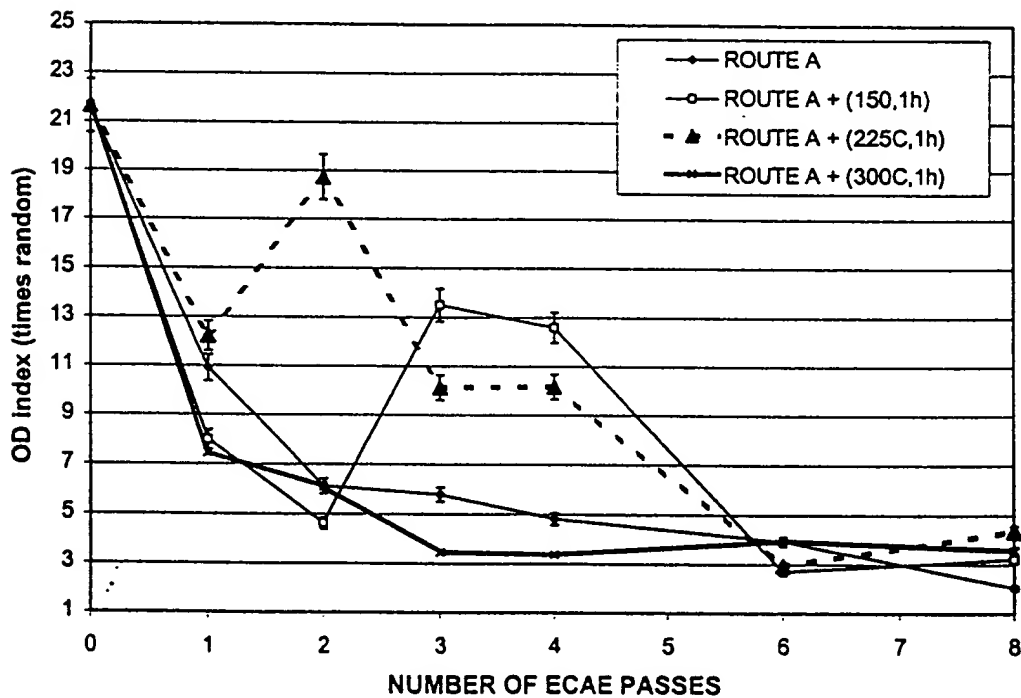


FIGURE 6

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE B

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE
 DEFORMATION VIA ROUTE B AND SUBSEQUENT ANNEALING AT TEMPERATURES:
 -BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
 -AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
 -AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

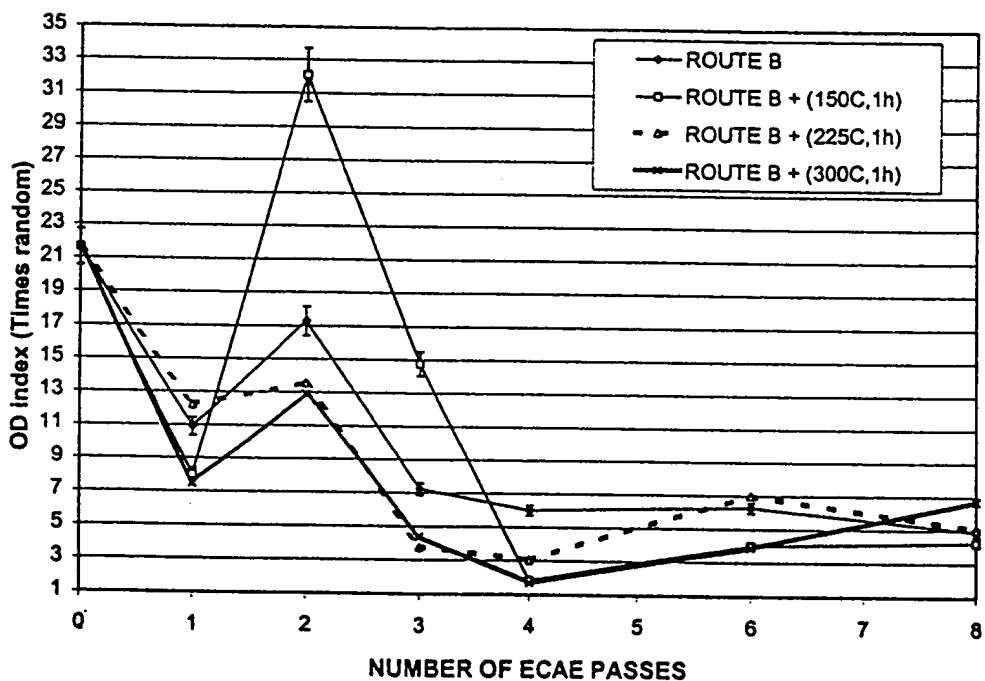


FIGURE 7

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE C

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE DEFORMATION VIA ROUTE C AND SUBSEQUENT ANNEALING AT TEMPERATURES:

- BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
- AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
- AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

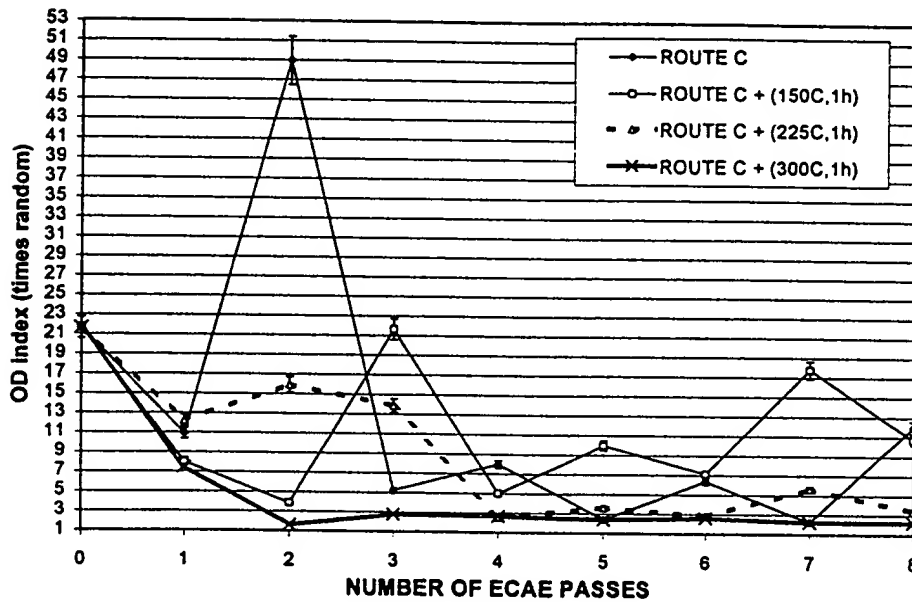


FIGURE 8

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE D

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE
 DEFORMATION VIA ROUTE D AND SUBSEQUENT ANNEALING AT TEMPERATURES:
 -BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
 -AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
 -AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

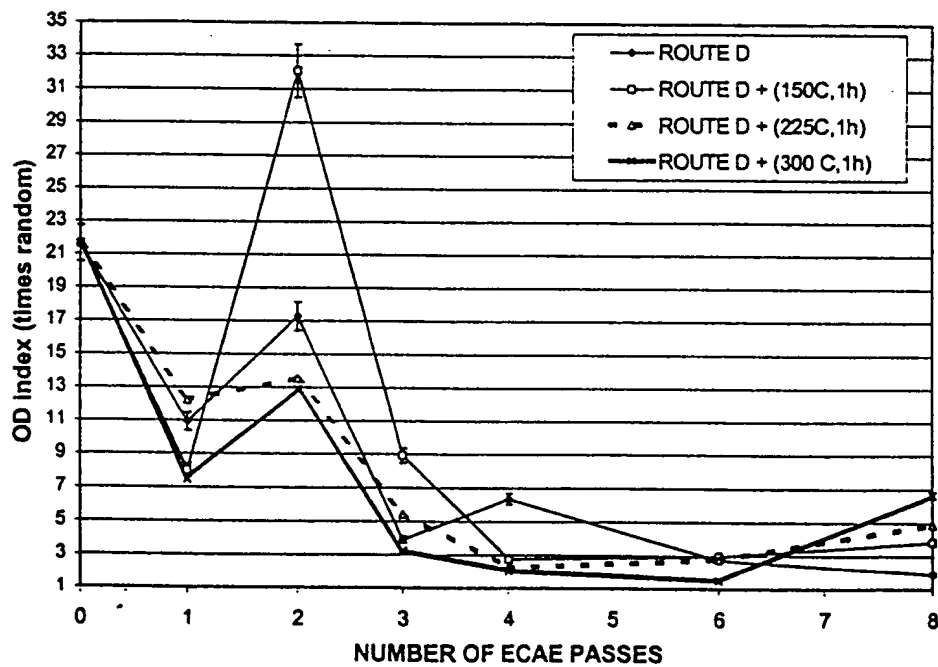


FIGURE 9

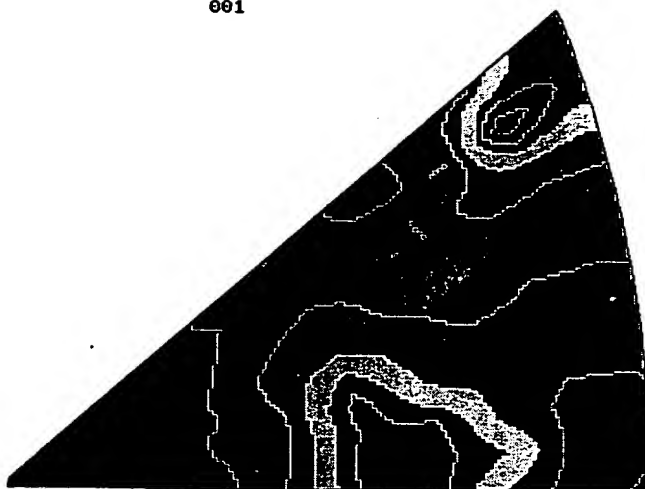
Figure 10

aoj

11-Jun-98

Ry(h)reduced pole figure

001



330 max.

100 (=1 mrd)

2 min.

linear scale
equal area proj.

